

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query   | DBs                | Default Operator | Plurals | Time Stamp          |
|-------|------|--|--------------------|------------------|---------|---------------------|
| S71   | 1    | "20030074669".PN.  | US-PGPUB;<br>USPAT | OR               | ON      | 2010/08/08<br>19:23 |
| S72   | 50   | (US-5319395-\$ or US-6249824-\$ or US-5784366-\$ or US-5909435-\$ or US-5877742-\$ or US-5303393-\$ or US-5365516-\$ or US-5526357-\$ or US-5764691-\$ or US-5894494-\$ or US-5999562-\$ or US-6072185-\$ or US-6237122-\$ or US-5507024-\$ or US-5805155-\$ or US-5848072-\$ or US-6181609-\$ or US-4455483-\$ or US-5177796-\$ or US-5274508-\$ or US-5321699-\$ or US-5386422-\$ or US-5388074-\$ or US-5469444-\$ or US-5481531-\$ or US-5506965-\$).did. or (US-5684774-\$ or US-5841717-\$ or US-5917429-\$ or US-6178121-\$ or US-6243348-\$ or US-4415792-\$ or US-4451108-\$ or US-4502082-\$ or US-4796260-\$ or US-4972474-\$ or US-5280584-\$ or US-5377102-\$ or US-5382508-\$ or US-5440686-\$ or US-5477492-\$ or US-5511212-\$ or US-5537945-\$ or US-5561671-\$ or US-5583975-\$ or US-5657398-\$ or US-5684693-\$ or US-5724241-\$ or US-5742509-\$ or US-5831903-\$).did. | USPAT              | OR               | ON      | 2010/08/08<br>19:23 |

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| S73 | 50 | (US-20040117715-\$ or US-20060259820-\$ or US-20060278004-\$ or US-20010029520-\$ or US-20010043522-\$ or US-20030088372-\$ or US-20030117916-\$ or US-20050001911-\$ or US-20050286440-\$ or US-20060050970-\$ or US-20060130002-\$ or US-20060137024-\$ or US-20070067278-\$ or US-20080151802-\$ or US-20080319897-\$ or US-20090080376-\$).did. or (US-7505535-\$ or US-7207224-\$ or US-4882737-\$ or US-5148479-\$ or US-5373372-\$ or US-5430830-\$ or US-5602638-\$ or US-5768159-\$ or US-7200233-\$ or US-7483058-\$ or US-3555184-\$ or US-3555195-\$ or US-3555204-\$ or US-3555251-\$ or US-3555255-\$ or US-3555259-\$ or US-3556007-\$ or US-3557308-\$ or US-3557314-\$ or US-3557349-\$ or US-3557354-\$ or US-3557355-\$ or US-3557357-\$ or US-3557673-\$ or US-3558811-\$ or US-3558820-\$).did. or (US-3558823-\$ or US-3558829-\$ or US-3558859-\$ or US-3558917-\$ or US-3559637-\$ or US-3559995-\$ or US-3560633-\$ or US-3560639-\$).did. | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S74 | 0  | S72 and S73   | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S75 | 27 | (@rlad<"20040714" or @ad<"20040714") and (mimo multiple adj input adj multiple adj output) and (max maximum) near3 (size length) and fragment\$3  | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |

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| S76 | 6   | (@rlad<"20040714" or<br>@ad<"20040714") and<br>(mimo multiple adj input adj<br>multiple adj output) and<br>("same") near3 (size length)<br>near3 (packet frame<br>fragment data adj unit pdu<br>mpdu msdu) and (carrier<br>near3 sense csma)   | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S77 | 144 | (@rlad<"20040714" or<br>@ad<"20040714") and<br>(mimo multiple adj input adj<br>multiple adj output) and<br>("same") near3 (size length)<br>near3 (packet frame<br>fragment pdu data adj unit<br>mpdu msdu)   | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S78 | 39  | (@rlad<"20040714" or<br>@ad<"20040714") and<br>(mimo multiple adj input adj<br>multiple adj output) and<br>(max maximum) near3 (size<br>length) same (fragment\$3<br>packet fame pdu data adj<br>unit mpdu msdu mdsu)  | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S79 | 8   | (@rlad<"20040714" or<br>@ad<"20040714") and<br>(mimo multiple adj input adj<br>multiple adj output) and<br>("same") near3 (size length)<br>near3 (packet frame<br>fragment pdu data adj unit<br>mpdu msdu) and (max<br>maximum) near3 (size<br>length) same (fragment\$3<br>packet fame pdu data adj<br>unit mpdu msdu mdsu) | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S80 | 135 | (@rlad<"20040714" or<br>@ad<"20040714") and<br>(mimo multiple adj input adj<br>multiple adj output).ab. and<br>("same" match\$3 equal)<br>near3 (rate)   | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S81 | 32  | (@rlad<"20040714" or<br>@ad<"20040714") and<br>(mimo multi\$3 adj input adj<br>multi\$3 adj output) and<br>("same" match\$3 equal)<br>near3 (rate) and (carrier adj<br>sense csma)   | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |

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| S82 | 8   | ("20030067890"   "20040027994"   "20040057530"   "6751480"   "7016658"   "7058367"   "7298717"   "7411929").PN.<br>OR ("7532600").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2010/08/08<br>19:23 |
| S83 | 173 | (@rlad<"20040714" or @ad<"20040714") and (mimo multiple adj input adj multiple adj output) and fragment\$3   | US-PGPUB;<br>USPAT           | OR | ON | 2010/08/08<br>19:23 |
| S84 | 10  | (US-20040213184-\$ or US-20040121730-\$ or US-20040082356-\$ or US-20040076124-\$ or US-20030189999-\$ or US-20040141525-\$ or US-20030185241-\$).did. or (US-7403570-\$ or US-7058367-\$ or US-7046651-\$).did.           | US-PGPUB;<br>USPAT           | OR | ON | 2010/08/08<br>19:23 |
| S85 | 8   | S84 and (max maximum threshold)  | US-PGPUB;<br>USPAT           | OR | ON | 2010/08/08<br>19:23 |
| S86 | 0   | ("2003/0074669").URPN.   | USPAT                        | OR | ON | 2010/08/08<br>19:23 |
| S87 | 2   | (@rlad<"20040714" or @ad<"20040714") and (mimo multiple adj input adj multiple adj output) and (max maximum maxim\$3) near3 (size length time) near20 (fragment)   | US-PGPUB;<br>USPAT           | OR | ON | 2010/08/08<br>19:23 |
| S88 | 49  | (@rlad<"20040714" or @ad<"20040714") and (mimo multiple adj input adj multiple adj output) and (max maximum maxim\$3) near3 (size length time) near20 (packet frame fragment pdu data adj unit mpdu msdu)                  | US-PGPUB;<br>USPAT           | OR | ON | 2010/08/08<br>19:23 |
| S89 | 13  | (@rlad<"20040714" or @ad<"20040714") and (mimo multiple adj input adj multiple adj output) and (max maximum maxim\$3) near3 (size length time) near20 (packet frame fragment pdu data adj unit mpdu msdu) and fragment \$3 | US-PGPUB;<br>USPAT           | OR | ON | 2010/08/08<br>19:23 |

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| S90 | 102 | (@rlad<"20040714" or<br>@ad<"20040714") and<br>(mimo multiple adj input adj<br>multiple adj output).ab. and<br>("same" match\$3 equal)<br>near3 (rate) and (size<br>length) | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S91 | 80  | (@rlad<"20040714" or<br>@ad<"20040714") and<br>reference near3 rate same<br>(tx transmi\$5) near3 rate<br>same (size length)  | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S92 | 4   | (@rlad<"20040714" or<br>@ad<"20040714") and<br>determin\$3 near7 (size<br>length) with (tx transmi\$5)<br>near3 rate with (reference<br>near3 rate)                         | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S93 | 41  | (@rlad<"20040714" or<br>@ad<"20040714") and<br>determin\$3 near7 (size<br>length) with rate and (tx<br>transmi\$5) near3 rate with<br>(reference near3 rate)                | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S94 | 36  | "370".clas. and<br>(@rlad<"20030618" or<br>@ad<"20030618") and<br>((ratio proportion\$3 scal\$3)<br>with (size length) with rate).<br>ab.                                   | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S95 | 0   | (@rlad<"20030618" or<br>@ad<"20030618") and (size<br>length) near7 (ratio<br>proportion\$3 scal\$3) near7<br>rate and mimo  | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S96 | 310 | (@rlad<"20030618" or<br>@ad<"20030618") and<br>mimo.ab.   | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S97 | 23  | (@rlad<"20030618" or<br>@ad<"20030618") and<br>mimo and rate and ("same"<br>equal) near7 (length time<br>duration) same (vary\$3<br>variable different) near3 rate          | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |
| S98 | 141 | (@rlad<"20030618" or<br>@ad<"20030618") and<br>mimo.ab. and rate and<br>("same" equal) near7<br>(length time duration<br>interval)  | US-PGPUB;<br>USPAT | OR | ON | 2010/08/08<br>19:23 |

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| S99  | 173 | (@rlad<"20030618" or @ad<"20030618") and (multiple adj input adj multiple adj output mimo) and (segment\$3 segmentation fragment\$3 fragmentation) same rate         | US-PGPUB; USPAT | OR | ON | 2010/08/08 19:23 |
| S100 | 6   | ("2002/0142723").URPN.   | USPAT           | OR | ON | 2010/08/08 19:23 |
| S101 | 7   | (@rlad<"20030618" or @ad<"20030618") and (multiple adj input adj multiple adj output mimo) and (da destination) near7 address and (fcs frame adj check adj sequence) | US-PGPUB; USPAT | OR | ON | 2010/08/08 19:23 |
| S105 | 11  | (@rlad<"20030618" or @ad<"20030618") and (multiple adj input adj multiple adj output mimo) and (calculat\$3) with ratio with rate                                    | US-PGPUB; USPAT | OR | ON | 2010/08/08 22:07 |
| S107 | 114 | "370".clas. and (@rlad<"20030618" or @ad<"20030618") and ((ratio proportion\$3 scal\$3) with (size length) with rate) with (calculat\$3 determin\$3)                 | US-PGPUB; USPAT | OR | ON | 2010/08/08 22:13 |
| S117 | 215 | "370".clas. and (@rlad<"20030618" or @ad<"20030618") and (calculat\$3) near7 (ratio) near7 rate  | US-PGPUB; USPAT | OR | ON | 2010/08/11 10:16 |

## EAST Search History (Interference)

| Ref # | Hits | Search Query                          | DBs                   | Default Operator | Plurals | Time Stamp       |
|-------|------|---------------------------------------|-----------------------|------------------|---------|------------------|
| S108  | 0    | 10/"Term Removed"                     | US-PGPUB; USPAT; UPAD | OR               | ON      | 2010/08/08 19:23 |
| S109  | 0    | 10/"Term Removed"                     | USPAT; UPAD           | OR               | ON      | 2010/08/08 19:23 |
| S110  | 14   | NAGATA.in. with KENGO.in.             | US-PGPUB; USPAT; UPAD | OR               | ON      | 2010/08/08 22:04 |
| S111  | 3    | KUMAGAI.in. with TOMOAKI.in. NOT S110 | US-PGPUB; USPAT; UPAD | OR               | ON      | 2010/08/08 22:04 |

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| S112 | 5  | OTSUKI.in. with<br>SHINYA.in. NOT S110<br>NOT S111  | US-PGPUB;<br>USPAT;<br>UPAD | OR | ON | 2010/08/08 22:04 |
| S113 | 17 | SAITO.in. with<br>KAZUYOSHI.in. NOT<br>S110 NOT S111 NOT<br>S112                            | US-PGPUB;<br>USPAT;<br>UPAD | OR | ON | 2010/08/08 22:05 |
| S114 | 7  | AIKAWA.in. with<br>SATORU.in. NOT<br>S110 NOT S111 NOT<br>S112 NOT S113                     | US-PGPUB;<br>USPAT;<br>UPAD | OR | ON | 2010/08/08 22:05 |
| S115 | 0  | HIRUKAWA.in. with<br>AKINORI.in. NOT<br>S110 NOT S111 NOT<br>S112 NOT S113 NOT<br>S114      | US-PGPUB;<br>USPAT;<br>UPAD | OR | ON | 2010/08/08 22:06 |
| S116 | 49 | OHTA.in. with<br>ATSUSHI.in. NOT<br>S110 NOT S111 NOT<br>S112 NOT S113 NOT<br>S114 NOT S115 | US-PGPUB;<br>USPAT;<br>UPAD | OR | ON | 2010/08/08 22:06 |

8/11/2010 12:59:06 PM

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